



Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-33. (Canceled).

34. (Previously Presented) A fixing device using induction heating for causing alternating current to pass through an electromagnetic induction coil, which is arranged so as to be close to an endless member having a metal layer of a conductive material, to cause said endless member to generate heat to heat a member to be fixed, wherein said electromagnetic induction coil comprises a litz wire that includes a plurality of twisted single wires, each of said single wires being a conductor coated by a first insulating coating, and wherein said litz wire which comprises the plurality of single wires is coated by a second insulating coating,

wherein a bonding of turns of said electromagnetic induction coil to each other and a bonding of said electromagnetic induction coil to a core to be wound, are carried out by an adhesive material mixed with mica, and

wherein a central portion in an axial direction of a thermal load of said endless member, which is heated by said electromagnetic induction coil, is different from a central portion in an axial direction of said endless member.

35.-44. (Canceled).

45. (Currently Amended) A fixing device comprising:
an endless member in a cylindrical shape having a metal layer of a conductive material; and

a coil unit located close to the endless member,
the coil unit including:

a core formed of a heat-resistant resin;

a first heat-resistant resin layer of a heat-resistant resin, which is different from the heat resistant resin forming the core, the first heat-resistant resin layer being formed on an outer surface of the core;

a coil wound around the core, on which the first heat-resistant resin layer is formed, the coil being formed of a litz wire that includes a plurality of single wires; and

a second heat-resistant resin layer ~~coated on a surface of the coil unit~~ for adhesively bonding windings of the coil together,

wherein the second heat-resistant resin layer further ~~bonds and fixes the signal wires together, and~~ bonds and fixes the coil and the core together.

46. (Previously Presented) The fixing device according to claim 45, wherein the endless member is a roller having a driving gear at one end and having bearings at both ends.

47. (Currently Amended) ~~The~~ A fixing device ~~according to claim 46,~~ comprising:
an endless member in a cylindrical shape having a metal layer of a conductive material; and

a coil unit located close to the endless member,

the coil unit including:

a core formed of a heat-resistant resin;

a first heat-resistant resin layer of a heat-resistant resin, which is different from the heat resistant resin forming the core, the first heat-resistant resin layer being formed on an outer surface of the core;

a coil wound around the core, on which the first heat-resistant resin layer is formed, the coil being formed of a litz wire that includes a plurality of single wires; and

a second heat-resistant resin layer coated on a surface of the coil unit,

wherein the second heat-resistant resin layer bonds and fixes the signal wires together, and bonds and fixes the coil and the core together,

wherein the endless member is a roller having a driving gear at one end and having bearings at both ends, and

wherein the coil unit is arranged along a longitudinal direction of the roller, and a central portion of the roller in the longitudinal direction does not match a central portion of the coil in a longitudinal direction.

48. (Previously Presented) The fixing device according to claim 47, wherein the core has a plurality of holes opened in a direction perpendicular to the longitudinal direction of the roller.

49. (Previously Presented) The fixing device according to claim 45, wherein the first and second heat-resistant resin layers are formed of a material selected from the group consisting of a polyimide resin, an epoxy resin, and a silicone resin, and are resistant to a temperature of 200 °C or higher.

50. (Previously Presented) The fixing device according to claim 45, wherein the first and second heat-resistant resin layers contain 50% or less by weight of mica.

51. (Previously Presented) The fixing device according to claim 45, wherein the single wires are coated with polyamidelmide or polyamide.

52. (Previously Presented) The fixing device according to claim 51, wherein the litz wire is covered by an insulating tube of polyamidelmide or polyamide.